

City of Oceanside Organic Management

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City Background - Why Organics?



- ▶ City Council Zero Waste Goal - Zero Waste Strategic Management Plan
 - ▶ Zero Waste Plan - 2012
 - ▶ Goal: 75-90% landfill reduction by 2020
 - ▶ Plan identifies organics as a target
 - ▶ Focus on the zero waste framework of implementing programs and services that are based on the highest and best use of material

Organics Feasibility Study

- ▶ Identify and assess options for increasing organics recovery and processing capacity in Oceanside
 - ▶ Evaluate the technical, environmental and economic viability of increasing the City's organic processing capacity including but not limited to:
 - ▶ Food Recovery Option
 - ▶ Feeding Animal Systems
 - ▶ Decentralized/onsite composting options for small to mid-size generators
 - ▶ Large scale infrastructure options for composting, co-digestion, anaerobic digestion, and other technical solutions
 - ▶ Energy options
 - ▶ Land use application

Waste Characterization Study

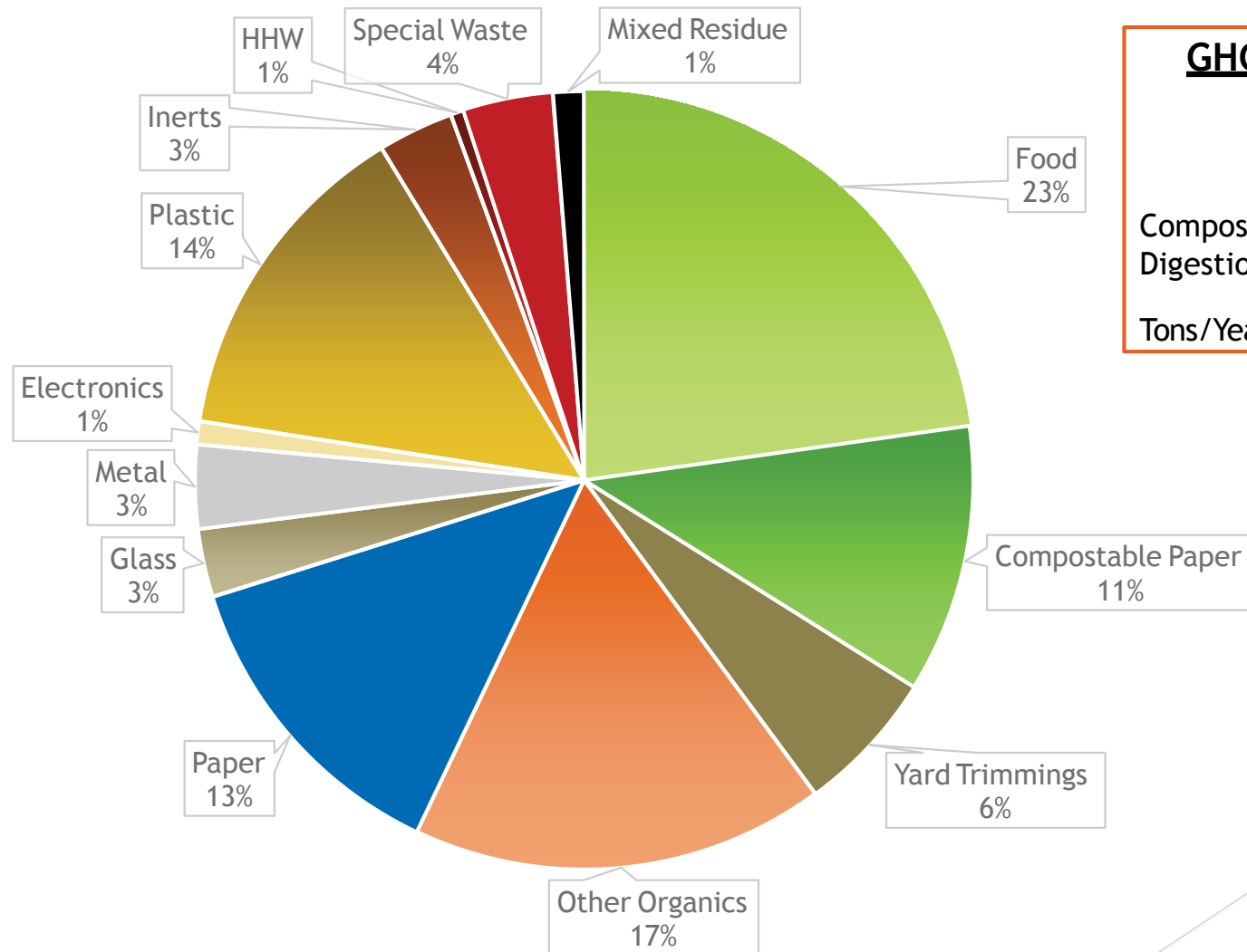
- ▶ The City evaluated various types of generators and performed the waste characterization on landfill-bound waste.
 - ▶ Residential: 380 Customers (76 per day)
 - ▶ Multifamily: 137 Customers (27 M, W, F; 28 Tu, Th)
 - ▶ Commercial: 324 Customers (65 M-Th; 64 F)
- ▶ Week long process Jan 25- Feb 1
- ▶ Used a modified form of the CalRecycle material characterization



Waste Characterization Study



Oceanside Waste Characterization



GHG Reduction Potential

	Low Tons	High Tons
Composting:	3,194	4,661 MTCO ₂ e
Digestion:	6,589	9,614 MTCO ₂ e
Tons/Year:	7,491	10,930

Results are similar to
2014 CalRecycle study
for Southern California

		ALL SECTOR	ALL SECTOR
Category	Material	%	TONS
Organics	Food	22.8%	17,863.80
	Other Miscellaneous Paper - Compostable	0.4%	283.09
	Remainder / Composite Paper - Compostable	10.8%	8,465.26
	Leaves and Grass	3.1%	2,431.94
	Prunings and Trimmings	2.1%	1,660.01
	Branches and Stumps	0.8%	599.49
	Manures	0.1%	90.39
	Textiles	3.9%	3,054.89
	Carpet	1.0%	749.34
	Clean Dimensional Lumber	1.0%	814.38
	Clean Engineered Wood	0.6%	481.34
	Clean Pallets & Crates	1.7%	1,307.08
	Other Wood Waste	2.3%	1,798.04
	Remainder / Composite Organic	6.6%	5,187.33
	SUBTOTAL All Organics	57.1%	44,786.38

Oceanside Waste Characterization Data

Restaurant Pilot - September 2016

- ▶ Month long pilot with seven local restaurants
- ▶ Education and Outreach
 - ▶ City staff met with each restaurant's owner and managers
 - ▶ City staff conducted in person, hands on training with all kitchen and serving staff
 - ▶ Pre-consumer vs. post consumer sorting and bagging
 - ▶ City provided infrastructure (bins, bags, signage, posters, etc.)
 - ▶ City staff provided weekly progress reports to each restaurant owner and managers
 - ▶ City staff monitored each restaurant kitchen weekly
 - ▶ City staff collected and sorted organic back end services weekly



Restaurant Pilot - September 2016

- ▶ Pre-Consumer - Collected in Green Bags
 - ▶ Meat, Poultry, Fish, Bones, Fruit, Vegetables, Grains, Rice, Shells
 - ▶ Contamination 1%-3%
- ▶ Post-Consumer - Collected in Orange Bags
 - ▶ Meat, Poultry, Fish, Bones, Fruit, Vegetables, Grains, Rice, Shells, Soiled Paper, Compostable Products
 - ▶ Contamination 2%-5%
- ▶ Diverted over 1 ton of material



Residential Pilot - March and April 2017

- ▶ Two month pilot with one residential route with approximately 1,600 single family homes
- ▶ Education and Outreach
 - ▶ Mailed informational flyers directly to each resident
 - ▶ WM tagged each residential home with pilot information
 - ▶ Hosted two educational workshops
 - ▶ City provided kitchen pails to each resident
 - ▶ WM delivered labeled kitchen pail and educational flyer
 - ▶ City staff walked and tagged routes each service day
 - ▶ Composting staff sorted food waste and contamination on sort line



Residential Pilot - March and April 2017

► Collection and Processing

- Residents placed pre-consumer vegetative food in their greenwaste carts
- Collected by WM during normal collection
- Composted by Agri Service

► Observations

- 20-40% participation
- Trouble understanding what can be placed in the green cart
- Lots of education - it's a process



North County Food Recovery Options

▶ Food Recovery and Culinary Arts Training Kitchen

▶ Goals of kitchen:

- ▶ Sourcing 10-30% from recoverable food
- ▶ Meals for the hungry
- ▶ Catering and culinary arts training

▶ Food Recovery Route

- ▶ To create a sustainable solution for long term food recovery system

Questions?

Thank you

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